

Glass Range for Architects and Specifiers

Technical Information Datasheet

Table 1

 Performance Data Insulating Glass Unit with 6 mm Pilkington **Optifloat™** Clear Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorbance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Insulating Glass Unit with 6 mm Pilkington Optifloat™ Clear inner pane and 16 mm 90% argon filled cavity – unless otherwise indicated											
Pilkington Suncool™											
6 mm 70/40	0.73	0.10	0.40	0.31	0.29	0.43	0.46	0.03	0.49	1.1	73/43
6 mm 70/35	0.70	0.16	0.34	0.35	0.31	0.37	0.40	0.03	0.43	1.0	70/37
6 mm 66/33	0.66	0.16	0.33	0.34	0.33	0.36	0.38	0.03	0.41	1.0	66/36
6 mm 60/31	0.60	0.11	0.29	0.32	0.39	0.32	0.34	0.03	0.37	1.0	60/32
6 mm Silver 50/30	0.50	0.40	0.29	0.47	0.24	0.32	0.33	0.04	0.37	1.0	50/32
6 mm 50/25	0.50	0.18	0.24	0.32	0.44	0.27	0.28	0.03	0.31	1.0	50/27
6 mm 40/22	0.40	0.20	0.20	0.34	0.46	0.23	0.23	0.03	0.26	1.1	40/23
6 mm 30/16	0.29	0.26	0.16	0.37	0.47	0.19	0.18	0.04	0.22	1.0	29/19
Pilkington Suncool™ OW (with 6 mm Pilkington Optiwhite™ inner pane and 16 mm 90% argon filled cavity)											
6 mm 70/40	0.75	0.10	0.43	0.37	0.20	0.45	0.50	0.02	0.52	1.1	75/45
6 mm 70/35	0.72	0.16	0.37	0.42	0.21	0.38	0.43	0.01	0.44	1.0	72/38
6 mm 66/33	0.68	0.17	0.36	0.41	0.23	0.37	0.41	0.02	0.43	1.0	68/37
6 mm 60/31	0.62	0.11	0.31	0.39	0.30	0.33	0.36	0.02	0.38	1.0	62/33
6 mm 50/25	0.52	0.19	0.26	0.38	0.36	0.28	0.30	0.02	0.32	1.0	52/28
6 mm 40/22	0.41	0.21	0.22	0.40	0.38	0.24	0.25	0.03	0.28	1.1	41/24
6 mm 30/16	0.30	0.26	0.17	0.43	0.40	0.19	0.20	0.02	0.22	1.0	30/19
Pilkington Suncool™ One – mid-range solar control with thermal insulation (low-e)											
6 mm 60/40	0.60	0.23	0.38	0.34	0.28	0.42	0.44	0.04	0.48	1.0	60/42
6 mm 30/21	0.31	0.32	0.18	0.38	0.44	0.21	0.21	0.03	0.24	1.0	31/21

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

The primary performance data (e.g. U value, g value, etc.) for Pilkington **Suncool™** Pro T is the same as that of the corresponding annealed Pilkington **Suncool™**, but there may be slight differences in the secondary performance data (e.g. solar reflectance). Full performance data for Pilkington **Suncool™** Pro T is available via www.pilkington.co.uk/spectrum

Table 2Performance Data Insulating Glass Unit with 6 mm Pilkington **K Glass™** Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Insulating Glass Unit with 6 mm Pilkington K Glass™ inner pane and 16 mm 90% argon filled cavity – unless otherwise indicated											
Pilkington Optifloat™ Clear											
6 mm	0.75	0.18	0.61	0.16	0.23	0.72	0.70	0.13	0.83	1.5	75/72
Pilkington Optiwhite™											
6 mm	0.76	0.18	0.65	0.17	0.18	0.77	0.75	0.14	0.89	1.5	76/77
Pilkington Optifloat™ Tint											
6 mm Green	0.63	0.14	0.35	0.09	0.56	0.43	0.41	0.08	0.49	1.5	63/43
6 mm Bronze	0.41	0.08	0.34	0.08	0.58	0.43	0.39	0.10	0.49	1.5	41/43
6 mm Grey	0.37	0.08	0.33	0.08	0.59	0.42	0.38	0.10	0.48	1.5	37/42

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

Table 3Performance Data Insulating Glass Unit with Pilkington **K Glass™** A Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Insulating Glass Unit with 4 mm Pilkington K Glass™ A inner pane and 16 mm 90% argon filled cavity											
4 mm Pilkington Optifloat™ Clear	0.76	0.17	0.62	0.17	0.21	0.75	0.72	0.14	0.86	1.4	76/75
Insulating Glass Unit with 6 mm Pilkington K Glass™ A inner pane and 16 mm 90% argon filled cavity											
6 mm Pilkington Optifloat™ Clear	0.75	0.17	0.58	0.16	0.26	0.72	0.67	0.16	0.83	1.4	75/72

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

Table 4Performance Data Insulating Glass Unit with 4 mm Pilkington **K Glass™** S Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Insulating Glass Unit with 4 mm Pilkington K Glass™ S inner pane and 16 mm 90% argon filled cavity											
Pilkington Optifloat™ Clear											
4 mm	0.82	0.12	0.62	0.21	0.17	0.71	0.71	0.11	0.82	1.2	82/71
Pilkington Optiwhite™											
4 mm	0.83	0.12	0.64	0.23	0.13	0.74	0.74	0.11	0.85	1.2	83/74
Pilkington Optifloat™ Tint											
4 mm Green	0.73	0.10	0.43	0.10	0.47	0.50	0.49	0.08	0.57	1.2	73/50
4 mm Bronze	0.56	0.08	0.42	0.13	0.45	0.50	0.48	0.09	0.57	1.2	56/50
4 mm Grey	0.51	0.07	0.40	0.12	0.48	0.48	0.46	0.09	0.55	1.2	51/48

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

Table 5Performance Data Insulating Glass Unit with 6 mm Pilkington **Optitherm™** S1 Plus Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Insulating Glass Unit with 6 mm Pilkington Optitherm™ S1 Plus inner pane and 16 mm 90% argon filled cavity – unless otherwise indicated											
Pilkington Optifloat™ Clear											
4 mm*	0.66	0.25	0.41	0.42	0.17	0.48	0.47	0.08	0.55	1.0	66/48
6 mm	0.65	0.24	0.39	0.39	0.22	0.47	0.45	0.09	0.54	1.0	65/47
Pilkington Optiwhite™											
4 mm*	0.67	0.25	0.43	0.47	0.10	0.50	0.49	0.08	0.57	1.0	67/50
6 mm	0.66	0.25	0.41	0.46	0.13	0.50	0.47	0.10	0.57	1.0	66/50
Pilkington Optifloat™ Tint											
6 mm Green	0.54	0.18	0.26	0.14	0.60	0.32	0.30	0.07	0.37	1.0	54/32
6 mm Bronze	0.36	0.10	0.22	0.16	0.62	0.28	0.25	0.07	0.32	1.0	36/28
6 mm Grey	0.32	0.09	0.21	0.15	0.64	0.27	0.24	0.07	0.31	1.0	32/27

* with 4 mm inner pane.

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

Table 6

Performance Data Pilkington **Activ**™ Range.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorbance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Insulating Glass Unit comprising Pilkington Activ ™ with 4 mm Pilkington Optifloat ™ Clear inner pane and 16 mm 90% argon filled cavity											
4 mm Pilkington Activ ™ Clear	0.78	0.20	0.71	0.19	0.10	0.75	0.82	0.04	0.86	2.6	78/75
4 mm Pilkington Activ ™ Blue	0.52	0.17	0.47	0.16	0.37	0.52	0.54	0.06	0.60	2.6	52/52
4 mm Pilkington Activ ™ Bronze	0.53	0.18	0.48	0.16	0.36	0.54	0.56	0.06	0.62	2.6	53/54
4 mm Pilkington Activ SunShade ™ Neutral	0.45	0.30	0.42	0.24	0.34	0.47	0.49	0.05	0.54	2.6	45/47
4 mm Pilkington Activ SunShade ™ Blue	0.23	0.21	0.21	0.18	0.61	0.28	0.24	0.08	0.32	2.5	23/28
Insulating Glass Unit comprising Pilkington Activ ™ with 4 mm Pilkington K Glass ™ inner pane and 16 mm 90% argon filled cavity											
4 mm Pilkington Activ ™ Clear	0.72	0.23	0.62	0.22	0.16	0.71	0.71	0.11	0.82	1.5	72/71
4 mm Pilkington Activ ™ Blue	0.49	0.18	0.41	0.17	0.42	0.49	0.47	0.09	0.56	1.5	49/49
4 mm Pilkington Activ ™ Bronze	0.49	0.19	0.42	0.18	0.40	0.49	0.48	0.08	0.56	1.5	49/49
4 mm Pilkington Activ SunShade ™ Neutral	0.42	0.31	0.37	0.25	0.38	0.44	0.42	0.09	0.51	1.5	42/44
4 mm Pilkington Activ SunShade ™ Blue	0.21	0.21	0.18	0.18	0.64	0.24	0.21	0.07	0.28	1.5	21/24
Insulating Glass Unit comprising Pilkington Activ ™ (with 4 mm Pilkington K Glass ™ S inner pane and 16 mm 90% argon filled cavity											
4 mm Pilkington Activ ™ Clear	0.77	0.18	0.58	0.26	0.16	0.67	0.66	0.11	0.77	1.2	77/67
4 mm Pilkington Activ ™ Blue	0.52	0.16	0.39	0.18	0.43	0.46	0.45	0.08	0.53	1.2	52/46
4 mm Pilkington Activ ™ Bronze	0.53	0.17	0.39	0.20	0.41	0.46	0.45	0.08	0.53	1.2	53/46
4 mm Pilkington Activ SunShade ™ Neutral	0.45	0.29	0.34	0.27	0.39	0.41	0.39	0.08	0.47	1.2	45/41
4 mm Pilkington Activ SunShade ™ Blue	0.22	0.21	0.17	0.19	0.64	0.23	0.20	0.06	0.26	1.2	22/23
Insulating Glass Unit comprising Pilkington Activ ™ with 4 mm Pilkington Optitherm ™ S1 Plus inner pane and 16 mm 90% argon filled cavity											
4 mm Pilkington Activ ™ Clear	0.62	0.29	0.39	0.46	0.15	0.46	0.45	0.08	0.53	1.0	62/46
4 mm Pilkington Activ ™ Blue	0.42	0.21	0.27	0.26	0.47	0.33	0.30	0.08	0.38	1.0	42/33
4 mm Pilkington Activ ™ Bronze	0.43	0.22	0.26	0.29	0.45	0.32	0.30	0.07	0.37	1.0	43/32
4 mm Pilkington Activ SunShade ™ Neutral	0.37	0.33	0.23	0.34	0.43	0.29	0.27	0.06	0.33	1.0	37/29
4 mm Pilkington Activ SunShade ™ Blue	0.18	0.22	0.12	0.20	0.68	0.17	0.14	0.06	0.20	1.0	18/17
Insulating Glass Unit comprising Pilkington Activ ™ with 6 mm Pilkington Optifloat ™ Clear inner pane and 16 mm 90% argon filled cavity											
6 mm Pilkington Activ ™ Clear	0.76	0.20	0.66	0.18	0.16	0.72	0.76	0.07	0.83	2.6	76/72
6 mm Pilkington Activ ™ Blue	0.51	0.17	0.43	0.15	0.42	0.50	0.50	0.07	0.57	2.6	51/50
6 mm Pilkington Activ SunShade ™ Neutral	0.45	0.29	0.39	0.23	0.38	0.45	0.45	0.07	0.52	2.5	45/45
6 mm Pilkington Activ SunShade ™ Blue	0.22	0.21	0.19	0.18	0.63	0.27	0.22	0.09	0.31	2.5	22/27
Insulating Glass Unit comprising Pilkington Activ ™ with 6 mm Pilkington K Glass ™ inner pane and 16 mm 90% argon filled cavity											
6 mm Pilkington Activ ™ Clear	0.71	0.23	0.58	0.21	0.21	0.68	0.66	0.12	0.78	1.5	71/68
6 mm Pilkington Activ ™ Blue	0.48	0.18	0.38	0.16	0.46	0.47	0.44	0.10	0.54	1.5	48/47
6 mm Pilkington Activ SunShade ™ Neutral	0.41	0.30	0.34	0.24	0.42	0.42	0.39	0.09	0.48	1.5	41/42
6 mm Pilkington Activ SunShade ™ Blue	0.21	0.21	0.17	0.18	0.65	0.23	0.20	0.06	0.26	1.5	21/23
Insulating Glass Unit comprising Pilkington Activ ™ (with 6 mm Pilkington K Glass ™ S inner pane and 16 mm 90% argon filled cavity											
6 mm Pilkington Activ ™ Clear	0.76	0.17	0.54	0.24	0.22	0.64	0.62	0.12	0.74	1.2	76/64
6 mm Pilkington Activ ™ Blue	0.51	0.16	0.37	0.17	0.46	0.45	0.42	0.10	0.52	1.2	51/45
6 mm Pilkington Activ SunShade ™ Neutral	0.44	0.28	0.32	0.25	0.43	0.40	0.37	0.09	0.46	1.2	44/40
6 mm Pilkington Activ SunShade ™ Blue	0.22	0.21	0.16	0.18	0.66	0.22	0.19	0.06	0.25	1.2	22/22
Insulating Glass Unit comprising Pilkington Activ ™ with 6 mm Pilkington Optitherm ™ S1 Plus inner pane and 16 mm 90% argon filled cavity											
6 mm Pilkington Activ ™ Clear	0.61	0.29	0.37	0.42	0.21	0.44	0.42	0.09	0.51	1.0	61/44
6 mm Pilkington Activ ™ Blue	0.41	0.21	0.25	0.25	0.50	0.32	0.29	0.08	0.37	1.0	41/32
6 mm Pilkington Activ SunShade ™ Neutral	0.36	0.32	0.22	0.32	0.46	0.28	0.25	0.07	0.32	1.0	36/28
6 mm Pilkington Activ SunShade ™ Blue	0.18	0.22	0.11	0.20	0.69	0.16	0.13	0.05	0.18	1.0	18/16

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

Table 7

Performance Data Pilkington **Activ Suncool™**.

Product Description	Light		Solar Radiant Heat				Shading Coefficients			U _g -value [W/m ² K]	Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	
Pilkington Activ Suncool™ (self-cleaning) – superior solar control with thermal insulation (low-e)											
Insulating Glass Unit with 6 mm Pilkington Optifloat™ Clear inner pane and 16 mm 90% argon filled cavity – unless otherwise indicated											
6 mm 61/34	0.62	0.23	0.32	0.38	0.30	0.35	0.37	0.03	0.40	1.0	62/35
6 mm 45/27	0.46	0.23	0.25	0.38	0.37	0.28	0.29	0.03	0.32	1.0	46/28

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.co.uk/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

General Information

Safety

Insulating Glass Units with Pilkington toughened glass, Pilkington **Optilam™** laminated glass range and, subject to pane size, Pilkington **Pyroshield™** 2 Safety Clear can meet the recommendations for the glazing of hazardous areas as given in BS 6262: Part 4: 2018, and comply with the relevant parts of the Building Regulations, such as Part K in England.

Thermal safety

At all stages of design and construction, the possibility of excessive thermal stress being developed in the glass by solar radiation should be considered. It is the responsibility of the customer or specifier to ensure that annealed glass is thermally safe for each application.

Wind loading

The method of support for an insulating glass unit may affect its ability to resist wind loads and/or increase deflection over and above allowable limits. We recommend that this is considered when calculating glass thicknesses.

Handling and storage

It is important that glass is handled and stored correctly, in accordance with recommendations. It should be kept dry and out of direct sunlight, supported to prevent it from sagging and protected against impact damage. Before glazing, each sheet should be checked and any damaged glass not glazed. It must also be protected against damage caused by water being drawn up between the plates by capillary action and from any abrasive site contaminants such as weld spatter, concrete, plaster and adhesives.

This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Optifloat", "Suncool", "Optiwhite", "K Glass", "Optitherm" and "Activ" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



CE marking confirms that a product complies with its relevant harmonised European Norm.

The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE



Pilkington United Kingdom Limited

Registered office: European Technical Centre

Hall Lane, Lathom, Nr Ormskirk, Lancashire L40 5UF

enquiries@pilkington.com

www.pilkington.co.uk